

ABSTRACT OF THE DISCLOSURE

A droplet ejection apparatus provided with: a drive signal generator for generating drive signals including a plurality of drive pulses; a drive pulse selector for selecting drive pulses in accordance with a print datum of each pixel; and a head for ejecting a droplet from a nozzle provided corresponding to a channel, by changing a volume of the channel according to the drive pulses selected, wherein, the drive signal includes a micro-vibration pulse as one of the drive pulses to generate a micro-vibration of meniscus in the nozzle in such a degree that the droplet is not ejected, said micro-vibration pulse being formed of rectangular waves which include at least one micro-vibration pulse having a pulse width of $(2n) AL$, where AL is $1/2$ of the acoustic resonance period of the channel, and n is an integer not smaller than 1.